



Ø BEAT



COLO. SPRINGS,
COLORADO

FEBRUARY 1981

The Business of Running a Club . . .

WHERE DO OUR DUES GO?

Well that's a long story! I'll briefly sum up 1980 for you. To start with, the newsletter you are now reading is the largest expense for the club. We print 350 copies each month at an average cost of \$60. That's just printing, now add \$15 a month for postage. Don't worry about adding it all up because it computes to an actual 1980 expense of \$904.29.

Your next question is, "why 350 copies?" How many of you first learned about our club by picking up a copy of the ZERO BEAT at your favorite electronics store? There goes about 125 copies or more. We have 110,667 paid members who all get a copy. The figure I just mentioned came from dividing \$664 (income from dues) by \$6.00. Exact! Not quite; simple, yes! The main thing is to show we distribute about another 125 copies to active members.

Now we have newly noted and sometimes forgotten (not intentionally!) lifetime members. In order to keep our ZERO BEAT staff's imaginations fresh, we exchange papers with other clubs. We also try to keep "those in influential places" informed by sending ZERO BEAT to several ARRL people as well as HQ in Newington. Advertisers deserve a copy or two.

As you can see \$664 (dues) doesn't come close to covering the cost of ZERO BEAT. Fortunately there is help. Advertising income was \$260.50 bringing the total income to \$924.50. With dues and ads we broke even with a small excess of \$20. No problem if that is all the PPRAA did all year.

We have other expenses that allow us to have club meetings and some security as a group. Two specific expenses that were necessary last year: the summer months use of Sabin cost the Club \$56.25 and re-instatement of Incorporation status with the State of Colorado was \$110.

Now for some of the more FUN things the club finances. Field Day (why should that cost anything?) came to \$91.32. "For what?" Well, if you'll remember, we lost our Black Forest site a couple of years ago. Instead of my back yard, it was more desirable to hold it in the Pike National Forest, but it does cost some money to use. There is a "use permit", an

approved sanitation facility that we had to rent, and of course, breakfast on Sunday morning for the operators.

It would be unfair to ask individuals to pick up the tab for the rest of FD requirements such as: gas for the generators, antenna parts, last minute fix-up needs; to name a few.

The "annual picnic". The club provides the liquid refreshments, charcoal, and charcoal lighter every year. Last year it came to \$71.06.

So far we have spent \$328.63 of our \$20 excess. We still need to spend \$156.22 for things like: flowers for the family of a silent key lifetime member, donation to AMSAT to help rebuild due to the loss of Phase III, tubes for the club Collins rig, CCARC dues and reimbursement to our CCARC representatives for some of the expenses incurred while representing PPRAA.

What this all boils down to is a deficit of \$464 if we didn't have something else to fall back on.

Last year was a very good year due to the Swap fest as it brought in \$858. Now we are in the black ink again. We have \$394 to play with. We must consider what the club had when we started the year, \$221. At this point it looks good, as the treasury is now approximately \$173 heavier. "No problem", you say! Let's suppose Swapfest was not as successful. What would have happened if it only brought in around \$400? We would be back in the red more than \$200. This shouldn't be too hard to imagine because the 1979 Swapfest only brought in \$312.

By now, you're thinking this article has been written to justify the increase in dues recently voted on at the November meeting. You're right, but more importantly, whether the membership voted in the increase or not, you all deserve a re-cap of where the dues go.

As most of us have undoubtedly had to pass up a "good deal" on ham gear because it would seriously drain our personal financial reserves, the club is just as vulnerable to having to "pass up" something the membership would like to do if there were little or no reserve.

(continued on page 3)

P.P.R.A.A. DIRECTORS

PRESIDENT	Dave Vierling NØDV 2511 N. Tejon 80907	473-0293
V. PRESIDENT	*Les Borst WDØGTA 2542 E. Bijou 80909	634-3995
SECRETARY	*Bill Allen KFØW 1341 Doyle Pl. 80915	597-3324
TREASURER	*Doug Moloney WBØMHP 3817 Vaquero Cir. So. 80918	599-9605
Board Member	Ray Uberecken AAØL 9635 Thoroughbred 80908	495-3544
Board Member	Don Lohse KBØKQ 1410 E. LaSalle 80907	635-7469
Board Member	Charleen Colvin WBØYOB 4610 Topaz 80918	598-7704
Board Member	*Al Bailey ADØZ 2715 Alteza Ln. 80917	597-8514

(* Two-year board terms began October 1980)

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Sabin Jr. High School, 3605 N. Carefree Circle at 7:30 p.m. and all amateurs and interested parties are invited to attend.

Editor: Don Lohse KBØKQ, 1410 E. LaSalle, Colorado Springs, CO 80907 635-7469

PIKES PEAK RADIO AMATEUR ASSOCIATION MINUTES JANUARY 1981

The January's meeting of The Pikes Peak Radio Amateur Assoc. was called to order by President, Dave Vierling, NØDV, at 7:35 P.M. January 14, 1981. The place was Sabin Jr. High.

The 51 members and guests present introduced themselves and made their ham radio new year's resolutions.

Al Bailey, ADØZ, gave a very impressive presentation on how to fabricate printed circuit boards. Thanks much Al!

Treasurer, Doug Moloney, WBØMHP, told us we had a balance of \$572.82 plus \$299.00 collected for dues for a total of \$871.82.

Don Lohse, KBØKQ, informed us that ZERO BEAT will, in the future, be on time. It was a bit late last month because of the holidays. Wasn't everything?

Don also asks everyone who has an ad in ZERO BEAT to inform him as to its status.

Ken Holloway, KAØDST, reports that Dave Acree has been in touch with the "Powers that be" at Peterson A.F.B. with reference to the club using their facilities for our SWAP Meet. At this time, the date is still open; but should be April 12th or 26th with the 12th being the primary date. Ken also says we need at least six warm bodies to direct traffic in the parking lot. Ken further reports that he has already got together several thousand dollars worth of door prizes for the event. Good going Ken!

Secretary, Bill Allen, KFØW, reported that the signs ordered from 73 Magazine and paid for in half by Leroy Smith, WBØLTV, and in half by the club, have indeed arrived.

The secretary reported that a line of communication with the ARRL has been opened with reference to their "interference task force". It is hoped that our club can both contribute to and benefit from their efforts. The secretary also reported that lines of communication have been opened with the Federal Government, the State of Colorado and the City of Colorado Springs with the hope that the club may obtain tax free status and a tax exempt number for our purchases. (Subsequent to the meeting the forms came.)

Dave Vierling says the velocity factor of RG8X is probably 78% and not 66%, so everybody making tuned feeders or matching stubs take heed.

Dave also says that there are some novices who are in need of transmitters and receivers.

Also, Dave reminds everyone of the first annual world famous "H.F. Happening", or SLOW SPEED CW GET TOGETHER. 0400 ZULU, February 1, 1981 on 21.125 MHZ. Local time, Sat., Jan. 31, 1981, at 9:00 p.m.

The board meeting will be at Vice President, Les Borst's, house, January 19th at 7:30 P.M.

Doug Moloney got the membership cards to everyone at the meeting, and asked for any board members who have received dues monies from members to PLEASE give him the money!!! Good luck, Dave, (ha-ha).

Ray Uberecken reports that he has been in contact with Karl Smith, ARRL Vice President, and hopefully he will present the program at next month's meeting. I, not Leroy Smith, WBØLTV, will present all the facts on station grounding.

Respectfully,
Bill, Allen, KFØW

Typesetting courtesy Letter Setters

If it's CW, it's communications.

832-	ALL MAJOR BRANDS	832-
1111	SALES-SERVICE	1111
8-5:30 Mon.-Fri. 8:30-1 Sat.		

MIKE WBØEXE
BOB KØLRF
RUS WBØIK

NORT KØMPV
John WAØADV



C W ELECTRONIC SALES CO.

800 Lincoln St. Denver, CO 80203

de the President

It's very good to see all the new faces at club meetings lately. Hope you'll all keep coming back. We have quite a schedule of activities coming up. Springs usually brings with it a number of public service activities such as Walk for Mankind, and Spring Spree. P.P.R.A.A. is very involved in communicating for these events. It's not too early to get your gear in order so you can help out. Get involved and enjoy ham radio even more.

In the past few weeks I've been contacted by both members and other meeting attendees who have expressed quite a concern about our programs. It is not the content or quality that is a concern, but a rather lack of courteousness by the audience. Let's take a few minutes to think before we speak out during a demonstration. In most cases the speaker will cover the very items you think of. Almost every speaker will answer questions and entertain discussion at the appropriate time. Please, just common courtesy for these people. It doesn't take much to insult one and his opinion of us as a group will be a low one. These people come to inform and enlighten you. Please be courteous and keep your interruptions to a minimum. Everyone will benefit.

Novice Roundup starts at 0000Z Jan. 31 and lasts until 2400Z Feb. 8th. Why not get on the air and give out a few Colorado contacts. Our section is sometimes much in demand and the contesters need your contact. You'll be surprised how much fun you can have.

Our guest speaker for the February 11th meeting will be Carl Smith, W0BWJ of the A.R.R.L. — come loaded with questions about activities, band plans, and what have you. He'll be glad to give you the league's feelings on these matters.

Lastly, if you have requests for help in public service events, put it down in writing and give it to Biz, W0HCO for committee consideration. We have a good group on the committee and they can help with details. See you at the meeting on the 11th and on the air before then.

73,
Dave, N0DV

PUBLIC SERVICE

The Sweet Adelines of Colorado Springs have inquired about obtaining help from us for their convention to be held at the Colorado Springs City Auditorium on March 13 and 14. They would like about three or four hams to help coordinate between the Auditorium and the Four Seasons where most of the people will be staying. The problem comes in because of the tremendous number of singing groups and limited space at the Auditorium, so coordination is needed to let everyone know who's on stage, who's up next, and who needs to get down to the Auditorium from the hotel. Please contact Biz W0HCO at 598-5272 if you can help.

ADVERTISING NOTICE

Due to some problems, there will be a change in the advertising policy for classifieds in Zero Beat. Starting with the March issue, classifieds will be run for ONE month only, unless you notify Zero Beat to continue the ad. This is due to the fact that some of the classifieds have run for months after the item is sold. This is very embarrassing to both us and the person who gets a call on something he sold. So take a minute and call me or one of the other Board Members and tell them to pull or rerun your ad.

Dues (from page 1)

For example, if we did not have some reserve we wouldn't have been able to purchase the call books from CCARC to re-sell. The sale of the books is designed to boost our reserves, but the \$100 boost wouldn't cover the deficit if the Swapfest didn't go as well as it did.

Looking back at 1980 and into 1981 we all see higher prices that's true. Could this have been the reason the fall Swapfest the CMARC club sponsored had so few attendees? Could this happen to the 1981 PPRAA Swapfest? Could prices increase to a point where the only outside activity is the monthly club meetings, FD, or the picnic? If your answer is yes to any or all of these, then the club's well-being should be of great importance.

For the past four years the dues have been discussed by the board, but no action was taken. If there had been, I doubt 1981's dues would be any less than \$12 a year. If dues had been raised a small amount per year I doubt the reserves would have been any better. Starting 1981 with \$12 will probably give the club a better reserve level if Swapfest is as good as 1980 but is it worth the gamble?

In conclusion, I hope I've been able to show the real picture of how the finances work and solve the mystery of "Why raise the dues when our treasurer says 'we have X number of dollars' at each meeting?"

One final note, I'm sure some of you have some questions about specifics. The club records are not classified therefore I'd be happy to answer any question for club members at any club meeting — it's your club!

73, Doug, W0MHP
Treasurer

FOR SALE Drake — TR/DR 7, power supply, speaker, MN 4 matcher, Heath dry load/watt meter, Hygain 18 AVT/WB, Hygain mobile antenna with 10/20 meter coils, bumper mount, Drake TR/DR 7 mobile mount (never installed), reel type dipole w/coax and bag. As set only. \$2000/offer. Paul Thomas W0CGN, 597-0596 after 6:00.

FOR SALE — TA 33 beam, heavy duty CDE rotor, 60 foot Rohn crank up tower, Standard 146 HT w/synthesizer. Best offer. Frank N0BOV, 472-6150.

Centennial ★ ★ RCA ELECTRONICS

715 N. Weber, P.O. Box 1777, Colorado Springs 80901
PHONE: (303) 633-4666

BK PRECISION

The Cooper Group,

BELDEN

**GC
ELECTRONICS**

MALLORY

TRW

VIZ

ELECTRONICS

A.R.R.L.

Largest Supply of Electronic Parts
in Southern Colorado

SPECIAL FEATURE

A special thanks to Dave Shavey KØHOA for this contribution. It is a short program to run on a TRS 80 computer for duping contacts in a contest. The computer will be growing in importance in our hobby for years to come, and the sharing of programs like this one is a way to spread the knowledge and skills of our fellow amateurs. Any other programs that people would like to share would be very welcome. The only thing we ask is that the program be run out on a printer with a good ribbon that delivers a good, readable, reproducible copy. The columns in Zero Beat are 3½ inches wide, and hopefully your listing will fit that dimension. If that is not possible, please call me and we will try to work out something.

In addition, I would love to see some of you computer whizzes out there write up some pieces on aspects of computers — both hardware and software — that would be of interest to the rest of the group. This would serve two purposes; providing some excellent articles for Zero Beat, and raising the general knowledge level of our readers concerning computers, their uses and maybe some of their mysteries.

CONTEST DUPING WITH THE TRS-80

THIS IS A SIMPLE PROGRAM FOR CONTEST DUPING THAT WILL GIVE YOU THE NUMBER OF CONTACTS IN EACH CALL AREA 1 TO 4 AND THEN LIST THE CALLS OF THE STATIONS WORKED. THE CALL SIGNS ARE LISTED IN GROUPS OF 14 SO THEY WILL REMAIN ON THE SCREEN FOR CHECKING. THE PROGRAM HAS AN OVERFLOW IF PROPAGATION IS FAVORING A PARTICULAR CALL AREA. IF A DX STATION IS WORKED WITH THE CALL SIGN ZL1LZ THIS WOULD FALL INTO THE 1 CALL AREA.

I USED THIS PROGRAM TO DUPE THE LOGS FOR '80 FIELD DAY (NO DX). WITH NO PROBLEMS.

A.E.S. Communications

404 Arrawanna
Colorado Springs, CO 80909
475-7050

- AMPHENOL
- DENTRON
- CUSHCRAFT
- ASTATIC
- ARRL & AMECO BOOKS
- HUSTLER
- TURNER
- HYGAIN
- LARSEN
- VHF ENGINEERING
- NYE VIKING
- TEMPO
- YAESU
- KENWOOD

• SERVICE AVAILABLE •

TRADE-INS & CONSIGNMENTS WELCOME

VISA/MASTERCARD

9 — 5:30 Monday — Friday 9 — 1:00 Saturday

DAVE WDJ/CDU • JERA NØACT



GTB SYLVANIA
ECC SEMICONDUCTORS



Chandel Master THORDARSON

COLORADO SPRINGS
WALKER ELECTRONICS
2838 NORTH PROSPECT ST.
COLORADO SPRINGS, COLORADO 80907
PHONE - (303) 636-1661

CHEMICALS—TOOLS
WIRE AND CABLE
SERVICE AIDS

WHOLESALE DISTRIBUTORS
EXPERIMENTERS ITEMS
HEADPHONES—SPEAKERS
ANTENNA INSTALL. MATERIALS

MICROPHONES

LEADER
Instruments Corp.
Communications Division

Regency
NOT A SELLER OF MICROPHONES

```

1 CLS:PRINT TAB(12)"** DUPE PROGRAM **"
2 PRINT:PRINT:PRINT TAB(22)"BY KØHOA"
3 PRINT:PRINT:PRINT TAB(12)"THIS IS A DUPE RECALL PROGRAM"
4 PRINT TAB(12)"THAT WILL GIVE TOTAL CONTACTS"
5 PRINT TAB(12)"AND RECALL ALL CALL SIGNS WORKED"
6 REM *FOR CONTACTS & CALLS—TYPE LIST & HIT ENTER*
7 PRINT:PRINT:PRINT:INPUT"PRESS ENTER TO BEGIN DUPING":A:
  GOT010
10 CLEAR(B100):DEFINT C,K,I,N:CLS:DIM C*(2000):CT(10)
40 PRINT,"DUPE PROGRAM—RECALL"
70 INPUT"ENTER CALL SIGN":IN$
75 IF LEN(IN$)<3 GOT070
80 IF IN$="LIST" GOT0400
90 NUM=ASC(MID$(IN$,2,1))
100 IF NUM>47 AND NUM<58 GOT0150
110 NUM=ASC(MID$(IN$,3,1))
120 IF NUM>47 AND NUM<58 GOT0150
130 PRINT,"RETYPE":GOT070
150 NUM=NUM*40:I1=NUM*150+1
170 FOR I2=1 TO 150
180 IF C*(I1)=IN$ GOT0280
190 IF C*(I1)=" " GOT0300
200 I1=I1+1
210 NEXT
220 PRINT,"CHECK OVERFLOW":I1=1501
240 FOR I2=1 TO 599
250 IF C*(I1)=IN$ GOT0280
260 IF C*(I1)=" " GOT0300
265 I1=I1+1
270 NEXT
280 PRINT,"DUPE-----":IN$:GOT070
300 PRINT,"CALL ACCEPTED-----":IN$
305 IF FRE(IN$)<30 PRINT"OM-CHECK MANUAL":GOT070
310 C*(I1)=IN$:CT(NUM)=CT(NUM)+1:GOT070
400 FOR K1=1 TO 9

```

(continued on page 6)

JANUARY BOARD MINUTES

The meeting was held at the home of Les Borst, 2542 E. Bijou at 7:30 p.m. on January 19, 1981. Those present were Dave, NØDV; Les, WBØGTA; Bill, KFØW; Doug, WBØMHP; Biz, WDØHCO; Mike, KØTER; Ray; AAØL; and Charleen, WBØYOB.

The first order of business was to clarify the function and duties of the Public Service Committee as there was some question as to the committee and those named in the by-laws. The main functions of the committee are to decide what service should be done, the feasibility, number of people needed to do it, and other details; establish guidelines to present to people asking the club for assistance; get a list of people and their interests for future reference in working events or activities; and Biz WDØHCO will take care of announcements of upcoming events, report the results, and get meeting notices announced. Board members will assist with phone call reminders to members.

The time has come for us to consider upcoming events and this is the busy season coming. Several annual events were mentioned such as Sweet Adelines competition, mall demonstration, Spring Spree, Walk for Mankind, GT 10 Mile Run, Field Day, Outhouse Race, and Woodland Park Enduro. The Spring Spree Organization sent a certificate of appreciation to the club and a request for help this year.

Programs were discussed and how the speaker should be introduced. Some programs are designed to be question and answer sessions, but some of the programs have been such that the speaker presents his material first and then opens for questions. Of late this latter situation has been seriously disrupted. Many people are concerned about questions and comments being made constantly during the speakers presentation. This is rude and inconsiderate and most disconcerting to the speaker's train of thought. In the future the speaker will be introduced with a clarification of his desires for the presentation.

Bill Allen is looking into the procedure for filling out the tax forms sent by the state to the club. The board felt he should consult a CPA or someone with experience to find out if we would qualify for tax exemption as the fact that your organization is non profit does not necessarily mean it qualifies for tax exemption.

The request by the Colorado Hot Air Balloon Club for

assistance on their Labor Day events will be further checked out by Bill Allen and referred to the Public Service Committee.

Ken Holloway, KAØDST, has already gathered some "goodies" for the Swap Fest and has it pretty well underway. The primary date, April 12, with the secondary date, April 26, has been requested, but not yet confirmed.

The money presented to the club by Colorado Motorcycle Trail Riders, \$200, is earmarked for club equipment use. It will be used to purchase coax, baluns, or whatever is needed to repair or replenish club equipment.

A reminder to all of the CW Get Together on 21,125 (any speed) starting 0400 Z Feb. 1 (9 P.M., Saturday, Jan. 31 local). Also the Novice Roundup starting 0000Z Feb. 1 and ending 2400Z Feb. 8, so get on the air and give the novices some contacts.

The next board meeting will be on February 16 at 7:30 P.M. at the home of Doug Moloney, WBØMHP, 3817 S. Vaquero Circle. Anyone is welcome to attend a board meeting.

Respectfully submitted,
Charleen, WBØYOB

Channel
Communications Inc.

20-G EAST MOUNTVIEW LANE
COLORADO SPRINGS, COLORADO 80907

(303) 598-6704

- COMMERCIAL & PERSONAL 2-WAY MOBILE RADIO
- USED & CONSIGNMENT HF, VHF, & UHF COMM. EQUIPMENT
- REPAIR & CALIBRATION OF COMMUNICATIONS & OTHER ELECTRONICS EQUIPMENT

Dick Kohlhaas, W5UDM